

08/18/99  
Jc652 U.S. PTO

A  
Jc649 U.S. PTO  
09/376461  
08/18/99

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Rillie	)	Art Unit:	Unk.
Serial No.:	Unknown	)	Examiner:	Unk.
Filing Date:	Herewith [August 18, 1999]	)	Case No.:	1128.006A
For:	SKYLIGHT FLASHING	)	August 18, 1999	
		)	750 "B" Street, Suite 3120	
		)	San Diego, CA 92101	

TRANSMITTAL LETTER FOR - NEW U.S. PATENT APPLICATION

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

In connection with the above-captioned patent application, enclosed herewith are the following:

- (1) A Transmittal Letter for - A New U.S. Patent Appl'n in 2 pages with certificate of Express Mailing;
- (2) A new patent appl'n in 12 pgs. including specification, claims, abstract;
- (3) 5 sheets of drawings;
- (4) A Declaration - USA Patent Application by Inventor(s);
- (5) An assignment with Cover Sheet Form PTO-1595;
- (6) A Power of Attorney by Assignee;
- (7) A Verified Statement Claiming Small Entity Status [37 CFR 1.9(f) and 1.27(c)] - Small Business Concern;
- (8) Two checks totalling \$419 and \$40 to cover government filing fee and recordation of assignment;
- (9) An acknowledgment postcard.

CASE NO.: 1128.006A

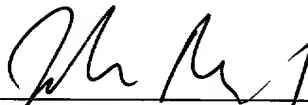
August 18, 1999

Page 2

**THE FILING FEES HAVE BEEN ESTIMATED AS FOLLOWS:**

(1) BASIC FEE (SMALL BUSINESS)	(2) NO. CLAIMS FILED	(3) NO. EXTRA CLAIMS	(4) RATE	(5) TOTAL FEES
\$380.00				\$380.00
TOTAL CLAIMS	15 - 20 =	0 x	\$9.00 =	00.00
INDEPENDENT CLAIMS	4 - 3 =	0 x	\$39.00 =	39.00
MULTIPLE DEPENDENT CLAIMS (IF ANY)	0		\$130.00 =	-0-
<u>TOTAL FILING FEE</u>				\$419.00

Respectfully submitted,




John L. Rogitz, Atty of Record, Reg. No. 33,549  
750 "B" Street, Suite 3120, San Diego, CA 92101  
Telephone: (619) 338-8075

JLR/jg

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this document, together with any papers described as attached or enclosed, is being deposited with the United States Postal Service, "Express Mail Post Office to Addressee" service, Express Mailing label No. EL457353045 US under 37 CFR §1.10, addressed to Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231 on 8/18, 1999.

Date Signed: 8/18, 1999

  
JOHN L. ROGITZ, Attorney of Record  
Registration No. 33,549

Applicant(s): David Windsor Rillie  
For: "Skylight Flashing"

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS**  
**[37 CFR 1.9(f) AND 1.27(c)] - SMALL BUSINESS CONCERN**

I hereby declare that I am an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: SOLATUBE INTERNATIONAL, INC.

ADDRESS OF CONCERN: 2210 Oak Ridge Way  
Vista, California 92083-8341

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party of parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled:

**"SKYLIGHT FLASHING"**

by inventor(s) David Windsor Rillie, the specification filed herewith.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

FULL NAME:

ADDRESS:

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

FULL NAME:

ADDRESS:

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: Donald J. Schweibold  
Title of Person Other Than Owner: President

Address of Person Signing: 2210 Oak Ridge Way  
Vista, California 92083-8341

Signature: 

DONALD J. SCHWEIBOLD

/dated:

8-17-99

-1-

**SKYLIGHT FLASHING****FIELD OF THE INVENTION**

The present invention relates generally to tubular skylights, and more particularly to roof-mounted flashings.

**BACKGROUND**

5  
10  
15  
Tubular skylights have been provided for illuminating rooms inside buildings with natural light. Not only do tubular skylights thus save electricity and, concomitantly, are environmentally benign, but they illuminate rooms in a pleasing way using natural sunlight instead of 60 cycle electric light. An example of a commercially successful tubular skylight is disclosed in U.S. Patent No. 5,099,622, assigned to the same assignee as the present invention and incorporated herein by reference.

A tubular skylight includes a roof-mounted, dome-like transparent cover. The cover is mounted on the roof of a building by means of a flashing. An internally reflective tube depends downwardly from the flashing to the ceiling of the room sought to be illuminated, and the bottom of the tube is covered with a disk-shaped light diffuser that is positioned at the ceiling.

15  
A roof-mounted flashing typically includes a curb, the top of which is covered by the dome and the bottom of which engages a downwardly-depending skylight tube. A flat skirt is typically formed around the bottom of the curb, with the skirt extending radially away from the curb. The skirt is fastened to the roof such that the flashing provides an upper support for the skylight.

Past methods of making skylight flashings generally require a flat piece of sheet metal to be bent into the desired frusto-conical shape, with the opposed sides of the pieces that meet each other being welded or otherwise fastened together along a seam. Such seams, unfortunately, are unsightly and can fail, allowing dust to enter the skylight and degrade its light transmitting capabilities. Furthermore, the flat skirts, being made of sheet metal, ordinarily are not exceptionally strong. Consequently, the skirts can easily bend, warp, or otherwise become deformed, thereby interfering with the proper engagement of the flashing with a roof. The present invention recognizes the above problems and provides the below-disclosed solutions to one or more of the problems noted herein.

**SUMMARY OF THE INVENTION**

A tubular skylight includes a seamless flashing. A transparent dome is engaged with the flashing, and at least one skylight tube depends downwardly from the flashing.

In a preferred embodiment, the flashing includes a hollow frusto-conical shaped curb that has an open top which is covered by the dome. Also, the curb defines a bottom periphery opposite the open top, and a skirt extends radially outwardly away from the bottom periphery. In accordance with present principles, the skirt is formed with at least one surface strengthening anomaly such as a rib. More preferably, the skirt is formed with plural radial ribs, and the skirt can also be formed with a peripheral rib that extends along the outer periphery of the skirt.

In another aspect, a roof flashing includes a hollow frusto-conical shaped curb defining a bottom periphery. A skirt extends radially away from the bottom periphery. In accordance with the present invention, the skirt is formed with at least one surface strengthening anomaly.

In still another aspect, a method for making a flashing includes providing a flat piece of sheet metal, and engaging the sheet metal with a forming die. The forming die is actuated to establish a frusto-conical curb defining a top and a radial skirt extending away from the curb to establish a seamless stock flashing. The method then includes cutting a hole in the top of the curb with the same or another die, and forming at least one rib in the flashing using the same or another die.

In yet another aspect, a method for making a seamless skylight flashing includes forming a seamless stock flashing having a hollow curb that defines first and second ends and a skirt extending radially away from an end. At least one rib is then formed on the skirt. The details of the present invention, both as to its structure and operation, can best be understood in reference to the accompanying drawings, in which like reference numerals refer to like parts, and in which:

### **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 is a perspective view of the flashing of the present invention in an exploded relationship with a roof-mounted dome and a skylight tube, with portions of the tube broken away for clarity;

Figure 1A is a cross-sectional view of the peripheral rib as seen along the line 1A-1A in Figure 1;

Figure 1B is a cross-sectional view of a radial rib as seen along the line 1B-1B in Figure 1;

Figure 2 is a perspective view of an alternate flashing having an oblique pitch;

Figure 3 is a flow chart of the present flashing manufacturing process;

-4-

Figure 4 is a cross-sectional diagram of a combined forming and cutting die, with the male part distanced from the female part;

Figure 5 is a cross-sectional diagram of the die shown in Figure 4, with the male part engaged with the female part to form the flashing;

Figure 6 is a cross-sectional diagram of the die shown in Figure 4, with the cutting part advanced to cut the open top end in the flashing; and

Figure 7 is a schematic exploded diagram of a ribbing die.

#### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

Referring initially to Figure 1, a tubular skylight is shown, generally designated 10, which includes a roof-mounted flashing 12 that supports a transparent plastic skylight dome 14 above a vertically-oriented internally reflective skylight tube 16 for lighting, with natural sunlight, an interior room in a building. In one embodiment, the dome 14 can be the cover disclosed in U.S. Patent Number 5,896,712 for an invention entitled "LIGHT-COLLECTING SKYLIGHT COVER", owned by the same assignee as the present invention and incorporated herein by reference. Or, the dome 14 can be other suitable covers, such as the covers marketed under the trade name "Solatube" by the present assignee. On the other hand, the skylight tube 16 can be part of the skylight disclosed in the present assignee's U.S. Patent Nos. 5,896,713 or 5,099,622, both of which are incorporated herein by reference, or the tube 16 can be part of other suitable skylights.

As shown in Figure 1, the flashing 12 includes a flat skirt 18 that is attached flush to the roof by means well-known in the art. The skirt 18 defines an outer periphery 20 that, in the preferred

embodiment, is octagonal shaped, it being understood that the periphery 20 can assume other shapes if desired.

A hollow curb 22, preferably frusto-conical shaped as shown, rises upwardly from the skirt 18. The curb 22 can define a right regular conical frustum as shown in Figure 1, or, as shown in Figure 2, a curb 24 of a flashing 26 made in accordance with present principles can define an oblique pitch relative to an associated skirt 28 as appropriate for the cant of a roof to engage and hold the dome 14 in a generally vertically upright orientation. It is to be understood that in all other essential respects the flashings 12, 26 shown in Figures 1 and 2 are identical to each other.

Accordingly, referring back to Figure 1, the present curb 22 defines an open top end 30 that is covered by the dome 14 and an open bottom end 32 that is opposed to the top end 30. It can readily be appreciated in reference to Figure 1 that the curb 22 defines a vertical axis 34, and that the skirt 18 blends into and extends outwardly away from the bottom end 32 in a radial dimension that is orthogonal to the axis 34. Owing to the below-described manufacturing process, at least the curb 22 and preferably also the skirt 18 are seamless.

Figure 1 shows that the skirt 18 is formed with plural elongated strengthening ribs. More specifically, the skirt 18 is formed with plural elongated radial ribs 36 that are oriented radially on the skirt 18. Also, in the preferred embodiment a peripheral rib 38 is formed on the periphery 20 of the skirt 18. We have found that for optimum stiffening, the peripheral rib 38 should be formed as shown, i.e., on the extreme outer periphery of the skirt 18, with no portions of the skirt 18 extending radially outwardly beyond the peripheral rib 38. The ribs 36, 38 shown herein are examples of surface strengthening anomalies.



Figure 1A shows that the skirt 18 defines an upper surface 40 and a lower surface 42, and that the peripheral rib 38 can rise above the upper surface 40. Or, the peripheral rib 38 can extend below the lower surface 42 of the skirt 18. In either case, the peripheral rib 38 can be thicker than the skirt 18. Alternatively, as shown the peripheral rib 38 can have the same thickness as the skirt 18 and be trough-shaped, as is the case with the radial ribs 36.

Indeed, turning now to Figure 1B, as shown each radial rib 36 can be formed as a trough-like structure that rises in a curve above the upper surface 40 of the skirt 18. It is to be understood that depending on whether the male part of the ribbing die disclosed below has rib-forming flutes, or the female part of the ribbing die has rib-forming flutes, the radial ribs 36 could alternatively be formed as trough-like structures that dip below the lower surface 42 of the skirt 18. Stated differently, each radial rib has a concave surface and an opposed convex surface, and the concave surface can be contiguous to the upper surface 40 of the skirt 18 with the convex surface being contiguous to the lower surface 42, or vice-versa. In either case, the thickness of each radial rib 36 can be equal to the thickness of the skirt 18.

Figure 3 shows the manufacturing process of the present invention. Commencing at block 44, a piece of flat stock sheet metal is provided. Such a piece is shown in Figure 4 and designated 46. Next, at block 48 the piece 46 is positioned under a female part 50 of a combined forming and cutting die, generally designated 52. The female part 50 preferably has the shape of the curb that is desired to be formed from the piece 46. As can best be appreciated in reference to Figure 5, a male part 56, preferably having the shape of the curb that is desired to be formed from the piece 46, is pressed into the piece 46 to form a stock flashing as shown further below.

-7-

In the preferred embodiment, two separate dies are used, it being understood that a single die could be constructed having plural male parts as appropriate to undertake the method shown herein. Or, more than two dies can be used. When two dies are used, however, a male cutting part 58 that is centrally located with respect to the male part 56 is advanced into the stock 46 to form the open top end 30 (Figure 1) of the flashing, as indicated at block 64 in Figure 3.

Once the open top end has been formed, the stock flashing is removed from the combined forming and cutting die 52 at block 70 of Figure 3 and engaged with a ribbing die, generally designated 72 and shown in Figure 7. The ribbing die 72 includes a male part 74 that is advanced upwardly against the stock flashing, which is held by a female part 76. Either the male part 74 can be formed with ribbing features 78 as shown to form the ribs 36, 38 of the flashing 12 shown in Figure 1, or the female part 76 can be formed with convex or concave flutes to form the ribs 36, 38, or both parts 74, 76 can be formed with flutes. In any case, at block 82 the male part 74 is pressed onto the stock flashing, which is sandwiched between the male and female parts 74, 76, to press-form the ribs 36, 38 on the skirt 18 (Figure 1).

While the particular SKYLIGHT FLASHING as herein shown and described in detail is fully capable of attaining the above-described objects of the invention, it is to be understood that it is the presently preferred embodiment of the present invention and is thus representative of the subject matter which is broadly contemplated by the present invention, that the scope of the present invention fully encompasses other embodiments which may become obvious to those skilled in the art, and that the scope of the present invention is accordingly to be limited by nothing other than the appended claims, in which reference to an element in the singular is not intended to mean "one

and only one" unless explicitly so stated, but rather "one or more". All structural and functional equivalents to the elements of the above-described preferred embodiment that are known or later come to be known to those of ordinary skill in the art are expressly incorporated herein by reference and are intended to be encompassed by the present claims. Moreover, it is not necessary for a device or method to address each and every problem sought to be solved by the present invention, for it to be encompassed by the present claims. Furthermore, no element, component, or method step in the present disclosure is intended to be dedicated to the public regardless of whether the element, component, or method step is explicitly recited in the claims. No claim element herein is to be construed under the provisions of 35 U.S.C. §112, sixth paragraph, unless the element is expressly recited using the phrase "means for".

**WHAT IS CLAIMED IS:**

- 1           1.     A tubular skylight comprising:  
2                 a seamless flashing;  
3                 a transparent dome engageable with the flashing; and  
4                 at least one skylight tube depending downwardly from the flashing.
- 10           2.     The skylight of Claim 1, wherein the flashing comprises:  
11                 a hollow frusto-conical shaped curb defining an open top, the open top being covered  
12                 by the dome, the curb defining a bottom opposite the open top; and  
13                 a skirt extending radially away from the bottom of the curb, the skirt being formed  
14                 with at least one rib.
- 15           3.     The skylight of Claim 2, wherein the skirt defines a radial dimension, and the skirt  
16                 is formed with plural ribs, each rib being oriented radially on the skirt.
- 17           4.     The skylight of Claim 2, wherein the skirt defines an outer periphery, and the rib is  
18                 formed along at least part of the periphery.
- 19           5.     The skylight of Claim 3, wherein the skirt defines an outer periphery, and the flashing  
20                 includes at least one rib formed along at least part of the periphery.

1           6.     A roof flashing, comprising:  
              a hollow frusto-conical shaped curb defining a bottom end; and  
              a skirt extending radially away from the bottom end, the skirt being formed with at  
least one surface strengthening anomaly.

1           7.     The roof flashing of Claim 6, wherein the surface strengthening anomaly is a rib, the  
2 skirt defines a radial dimension, and the skirt is formed with plural ribs, each rib being oriented  
3 radially on the skirt.

1           8.     The roof flashing of Claim 6, wherein the surface strengthening anomaly is a rib, the  
2 skirt defines an outer periphery, and the rib is formed along at least part of the periphery.

1           9.     The roof flashing of Claim 7, wherein the skirt defines an outer periphery, and the  
2 flashing includes at least one rib formed along at least part of the periphery.

1           10.    A method for making a flashing, comprising the acts of:  
2                providing a flat piece of sheet metal;  
3                engaging the sheet metal with a forming die;  
4                actuating the forming die to establish a frusto-conical curb defining a top and a radial  
5 skirt extending away from the curb to establish a seamless stock flashing;

-11-

6 cutting a hole in the top of the curb;  
7 engaging the stock flashing with a ribbing die; and  
8 actuating the ribbing die to form at least one rib in the flashing.

1 11. The method of Claim 10, wherein the forming die and ribbing die are separate from  
2 each other.

100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900  
5000  
5100  
5200  
5300  
5400  
5500  
5600  
5700  
5800  
5900  
6000  
6100  
6200  
6300  
6400  
6500  
6600  
6700  
6800  
6900  
7000  
7100  
7200  
7300  
7400  
7500  
7600  
7700  
7800  
7900  
8000  
8100  
8200  
8300  
8400  
8500  
8600  
8700  
8800  
8900  
9000  
9100  
9200  
9300  
9400  
9500  
9600  
9700  
9800  
9900  
10000  
10100  
10200  
10300  
10400  
10500  
10600  
10700  
10800  
10900  
11000  
11100  
11200  
11300  
11400  
11500  
11600  
11700  
11800  
11900  
12000  
12100  
12200  
12300  
12400  
12500  
12600  
12700  
12800  
12900  
13000  
13100  
13200  
13300  
13400  
13500  
13600  
13700  
13800  
13900  
14000  
14100  
14200  
14300  
14400  
14500  
14600  
14700  
14800  
14900  
15000  
15100  
15200  
15300  
15400  
15500  
15600  
15700  
15800  
15900  
16000  
16100  
16200  
16300  
16400  
16500  
16600  
16700  
16800  
16900  
17000  
17100  
17200  
17300  
17400  
17500  
17600  
17700  
17800  
17900  
18000  
18100  
18200  
18300  
18400  
18500  
18600  
18700  
18800  
18900  
19000  
19100  
19200  
19300  
19400  
19500  
19600  
19700  
19800  
19900  
20000  
20100  
20200  
20300  
20400  
20500  
20600  
20700  
20800  
20900  
21000  
21100  
21200  
21300  
21400  
21500  
21600  
21700  
21800  
21900  
22000  
22100  
22200  
22300  
22400  
22500  
22600  
22700  
22800  
22900  
23000  
23100  
23200  
23300  
23400  
23500  
23600  
23700  
23800  
23900  
24000  
24100  
24200  
24300  
24400  
24500  
24600  
24700  
24800  
24900  
25000  
25100  
25200  
25300  
25400  
25500  
25600  
25700  
25800  
25900  
26000  
26100  
26200  
26300  
26400  
26500  
26600  
26700  
26800  
26900  
27000  
27100  
27200  
27300  
27400  
27500  
27600  
27700  
27800  
27900  
28000  
28100  
28200  
28300  
28400  
28500  
28600  
28700  
28800  
28900  
29000  
29100  
29200  
29300  
29400  
29500  
29600  
29700  
29800  
29900  
30000  
30100  
30200  
30300  
30400  
30500  
30600  
30700  
30800  
30900  
31000  
31100  
31200  
31300  
31400  
31500  
31600  
31700  
31800  
31900  
32000  
32100  
32200  
32300  
32400  
32500  
32600  
32700  
32800  
32900  
33000  
33100  
33200  
33300  
33400  
33500  
33600  
33700  
33800  
33900  
34000  
34100  
34200  
34300  
34400  
34500  
34600  
34700  
34800  
34900  
35000  
35100  
35200  
35300  
35400  
35500  
35600  
35700  
35800  
35900  
36000  
36100  
36200  
36300  
36400  
36500  
36600  
36700  
36800  
36900  
37000  
37100  
37200  
37300  
37400  
37500  
37600  
37700  
37800  
37900  
38000  
38100  
38200  
38300  
38400  
38500  
38600  
38700  
38800  
38900  
39000  
39100  
39200  
39300  
39400  
39500  
39600  
39700  
39800  
39900  
40000  
40100  
40200  
40300  
40400  
40500  
40600  
40700  
40800  
40900  
41000  
41100  
41200  
41300  
41400  
41500  
41600  
41700  
41800  
41900  
42000  
42100  
42200  
42300  
42400  
42500  
42600  
42700  
42800  
42900  
43000  
43100  
43200  
43300  
43400  
43500  
43600  
43700  
43800  
43900  
44000  
44100  
44200  
44300  
44400  
44500  
44600  
44700  
44800  
44900  
45000  
45100  
45200  
45300  
45400  
45500  
45600  
45700  
45800  
45900  
46000  
46100  
46200  
46300  
46400  
46500  
46600  
46700  
46800  
46900  
47000  
47100  
47200  
47300  
47400  
47500  
47600  
47700  
47800  
47900  
48000  
48100  
48200  
48300  
48400  
48500  
48600  
48700  
48800  
48900  
49000  
49100  
49200  
49300  
49400  
49500  
49600  
49700  
49800  
49900  
50000  
50100  
50200  
50300  
50400  
50500  
50600  
50700  
50800  
50900  
51000  
51100  
51200  
51300  
51400  
51500  
51600  
51700  
51800  
51900  
52000  
52100  
52200  
52300  
52400  
52500  
52600  
52700  
52800  
52900  
53000  
53100  
53200  
53300  
53400  
53500  
53600  
53700  
53800  
53900  
54000  
54100  
54200  
54300  
54400  
54500  
54600  
54700  
54800  
54900  
55000  
55100  
55200  
55300  
55400  
55500  
55600  
55700  
55800  
55900  
56000  
56100  
56200  
56300  
56400  
56500  
56600  
56700  
56800  
56900  
57000  
57100  
57200  
57300  
57400  
57500  
57600  
57700  
57800  
57900  
58000  
58100  
58200  
58300  
58400  
58500  
58600  
58700  
58800  
58900  
59000  
59100  
59200  
59300  
59400  
59500  
59600  
59700  
59800  
59900  
60000  
60100  
60200  
60300  
60400  
60500  
60600  
60700  
60800  
60900  
61000  
61100  
61200  
61300  
61400  
61500  
61600  
61700  
61800  
61900  
62000  
62100  
62200  
62300  
62400  
62500  
62600  
62700  
62800  
62900  
63000  
63100  
63200  
63300  
63400  
63500  
63600  
63700  
63800  
63900  
64000  
64100  
64200  
64300  
64400  
64500  
64600  
64700  
64800  
64900  
65000  
65100  
65200  
65300  
65400  
65500  
65600  
65700  
65800  
65900  
66000  
66100  
66200  
66300  
66400  
66500  
66600  
66700  
66800  
66900  
67000  
67100  
67200  
67300  
67400  
67500  
67600  
67700  
67800  
67900  
68000  
68100  
68200  
68300  
68400  
68500  
68600  
68700  
68800  
68900  
69000  
69100  
69200  
69300  
69400  
69500  
69600  
69700  
69800  
69900  
70000  
70100  
70200  
70300  
70400  
70500  
70600  
70700  
70800  
70900  
71000  
71100  
71200  
71300  
71400  
71500  
71600  
71700  
71800  
71900  
72000  
72100  
72200  
72300  
72400  
72500  
72600  
72700  
72800  
72900  
73000  
73100  
73200  
73300  
73400  
73500  
73600  
73700  
73800  
73900  
74000  
74100  
74200  
74300  
74400  
74500  
74600  
74700  
74800  
74900  
75000  
75100  
75200  
75300  
75400  
75500  
75600  
75700  
75800  
75900  
76000  
76100  
76200  
76300  
76400  
76500  
76600  
76700  
76800  
76900  
77000  
77100  
77200  
77300  
77400  
77500  
77600  
77700  
77800  
77900  
78000  
78100  
78200  
78300  
78400  
78500  
78600  
78700  
78800  
78900  
79000  
79100  
79200  
79300  
79400  
79500  
79600  
79700  
79800  
79900  
80000  
80100  
80200  
80300  
80400  
80500  
80600  
80700  
80800  
80900  
81000  
81100  
81200  
81300  
81400  
81500  
81600  
81700  
81800  
81900  
82000  
82100  
82200  
82300  
82400  
82500  
82600  
82700  
82800  
82900  
83000  
83100  
83200  
83300  
83400  
83500  
83600  
83700  
83800  
83900  
84000  
84100  
84200  
84300  
84400  
84500  
84600  
84700  
84800  
84900  
85000  
85100  
85200  
85300  
85400  
85500  
85600  
85700  
85800  
85900  
86000  
86100  
86200  
86300  
86400  
86500  
86600  
86700  
86800  
86900  
87000  
87100  
87200  
87300  
87400  
87500  
87600  
87700  
87800  
87900  
88000  
88100  
88200  
88300  
88400  
88500  
88600  
88700  
88800  
88900  
89000  
89100  
89200  
89300  
89400  
89500  
89600  
89700  
89800  
89900  
90000  
90100  
90200  
90300  
90400  
90500  
90600  
90700  
90800  
90900  
91000  
91100  
91200  
91300  
91400  
91500  
91600  
91700  
91800  
91900  
92000  
92100  
92200  
92300  
92400  
92500  
92600  
92700  
92800  
92900  
93000  
93100  
93200  
93300  
93400  
93500  
93600  
93700  
93800  
93900  
94000  
94100  
94200  
94300  
94400  
94500  
94600  
94700  
94800  
94900  
95000  
95100  
95200  
95300  
95400  
95500  
95600  
95700  
95800  
95900  
96000  
96100  
96200  
96300  
96400  
96500  
96600  
96700  
96800  
96900  
97000  
97100  
97200  
97300  
97400  
97500  
97600  
97700  
97800  
97900  
98000  
98100  
98200  
98300  
98400  
98500  
98600  
98700  
98800  
98900  
99000  
99100  
99200  
99300  
99400  
99500  
99600  
99700  
99800  
99900  
100000  
100100  
100200  
100300  
100400  
100500  
100600  
100700  
100800  
100900  
101000  
101100  
101200  
101300  
101400  
101500  
101600  
101700  
101800  
101900  
102000  
102100  
102200  
102300  
102400  
102500  
102600  
102700  
102800  
102900  
103000  
103100  
103200  
103300  
103400  
103500  
103600  
103700  
103800  
103900  
104000  
104100  
104200  
104300  
104400  
104500  
104600  
104700  
104800  
104900  
105000  
105100  
105200  
105300  
105400  
105500  
105600  
105700  
105800  
105900  
106000  
106100  
106200  
106300  
106400  
106500  
106600  
106700  
106800  
106900  
107000  
107100  
107200  
107300  
107400  
107500  
107600  
107700  
107800  
107900  
108000  
108100  
108200  
108300  
108400  
108500  
108600  
108700  
108800  
108900  
109000  
109100  
109200  
109300  
109400  
109500  
109600  
109700  
109800  
109900  
110000  
110100  
110200  
110300  
110400  
110500  
110600  
110700  
110800  
110900  
111000  
111100  
111200  
111300  
111400  
111500  
111600  
111700  
111800  
111900  
112000  
112100  
112200  
112300  
112400  
112500  
112600  
112700  
112800  
112900  
113000  
113100  
113200  
113300  
113400  
113500  
113600  
113700  
113800  
113900  
114000  
114100  
114200  
114300  
114400  
114500  
114600  
114700  
114800  
114900  
115000  
115100  
115200  
115300  
115400  
115500  
115600  
115700  
115800  
115900  
116000  
116100  
116200  
116300  
116400  
116500  
116600  
116700  
116800  
116900  
117000  
117100  
117200  
117300  
117400  
117500  
117600  
117700  
117800  
117900  
118000  
118100  
118200  
118300  
118400  
118500  
118600  
118700  
118800  
118900  
119000  
119100  
119200  
119300  
119400  
119500  
119600  
119700  
119800  
119900  
120000  
120100  
120200  
120300  
120400  
120500  
120600  
120700  
120800  
120900  
121000  
121100  
121200  
121300  
121400  
121500  
121600  
121700  
121800  
121900  
122000  
122100  
122200  
122300  
122400  
122500  
122600  
122700  
122800  
122900  
123000  
123100  
123200  
123300  
123400  
123500  
123600  
123700  
123800  
123900  
124000  
124100  
124200  
124300  
124400  
124500  
124600  
124700  
124800  
124900  
125000  
125100  
125200  
125300  
125400  
125500  
125600  
125700  
125800  
125900  
126000  
126100  
126200  
126300  
126400  
126500  
126600  
126700  
126800  
126900  
127000  
127100  
127200  
127300  
127400  
127500  
127600  
127700  
127800  
127900  
128000  
128100  
128200  
128300  
128400  
128500  
128600  
128700  
128800  
128900  
129000  
129100  
129200  
129300  
129400  
129500  
129600  
129700  
129800  
129900  
130000  
130100  
130200  
130300  
130400  
130500  
130600  
130700  
130800  
130900  
131000  
131100  
131200  
131300  
131400  
131500  
131600  
131700  
131800  
131900  
132000  
132100  
132200  
132300  
132400  
132500  
132600  
132700  
132800  
132900  
133000  
133100  
133200  
133300  
133400  
133500  
133600  
133700  
133800  
133900  
134000  
134100  
134200  
134300  
134400  
134500  
134600  
134700  
134800  
134900  
135000  
135100  
135200  
135300  
135400  
135500  
135600  
135700  
135800  
135900  
136000  
136100  
136200  
136300  
136400  
136500  
136600  
136700  
136800  
136900  
137000  
137100  
137200  
137300  
137400  
137500  
137600  
137700  
137800  
137900  
138000  
138100  
138200  
138300  
138400  
138500  
138600  
138700  
138800  
138900  
139000  
139100  
139200  
139300  
139400  
139500  
139600  
139700  
139800  
139900  
140000  
140100  
140200  
140300  
140400  
140500  
140600  
140700  
140800  
140900  
141000  
141100  
141200  
141300  
141400  
141500  
141600  
141700  
141800  
141900  
142000  
142100  
142200  
142300  
142400  
142500  
142600  
142700  
142800  
142900  
143000  
143100  
143200  
143300  
143400  
143500  
143600  
143700  
143800  
143900  
144000  
144100  
144200  
144300  
144400  
144500  
144600  
144700  
144800  
144900  
145000  
145100  
145200  
145300  
145400  
145500  
145600  
145700  
145800  
145900  
146000  
146100  
146200  
146300  
146400  
146500  
146600  
146700  
146800  
146900  
147000  
147100  
147200  
147300  
147400  
147500  
147600  
147700  
147800  
147900  
148000  
148100  
148200  
148300  
148400  
148500  
148600  
148700  
148800  
148900  
149000  
149100  
149200  
149300  
149400  
149500  
149600  
149700  
149800  
149900  
150000  
150100  
150200  
150300  
150400  
150500  
150600  
150700  
150800  
150900  
151000  
151100  
151200  
151300  
151400  
151500  
151600  
151700  
151800  
151900  
152000  
152100  
152200  
152300  
152400  
152500  
152600  
152700  
152800  
152900  
153000  
153100  
153200  
153300  
153400  
153500  
153600  
153700  
153800  
153900  
154000  
154100  
154200  
154300  
154400  
154500  
154600  
154700  
154800  
154900  
155000  
155100  
155200  
155300  
155400  
155500  
155600  
155700  
155800  
155900  
156000  
156100  
156200  
156300  
156400  
156500  
156600  
156700  
156800  
156900  
157000  
157100  
157200  
157300  
157400  
157500  
157600  
157700  
157800  
157900  
158000  
158100  
158200  
158300  
158400  
158500  
158600  
158700  
158800  
158900  
159000  
159100  
159200  
159300  
159400  
159500  
159600  
159700  
159800  
159900  
160000  
160100  
160200  
160300  
160400  
160500  
160600  
160700  
160800  
160900  
161000  
161100  
161200  
161300  
161400  
161500  
161600  
161700  
161800  
161900  
162000  
162100  
162200  
162300  
162400  
162500  
162600  
162700  
162800  
162900  
163000  
163100  
163200  
163300  
163400  
163500  
163600  
163700  
163800  
163900  
164000  
164100  
164200  
164300  
164400  
164500  
164600  
164700  
164800  
164900  
165000  
165100  
165200  
165300  
16540

**ABSTRACT**

A seamless skylight flashing has a frusto-conical curb defining an open top that can be covered by a skylight dome and an open bottom. A flat skirt extends radially away from the open bottom. Plural strengthening ribs are oriented radially on the skirt, and a peripheral rib is formed on the outer edge of the skirt. The skirt is preferably formed by die presses.

2025 RELEASE UNDER E.O. 14176

000180-1 5th 4E00

Fig. 1

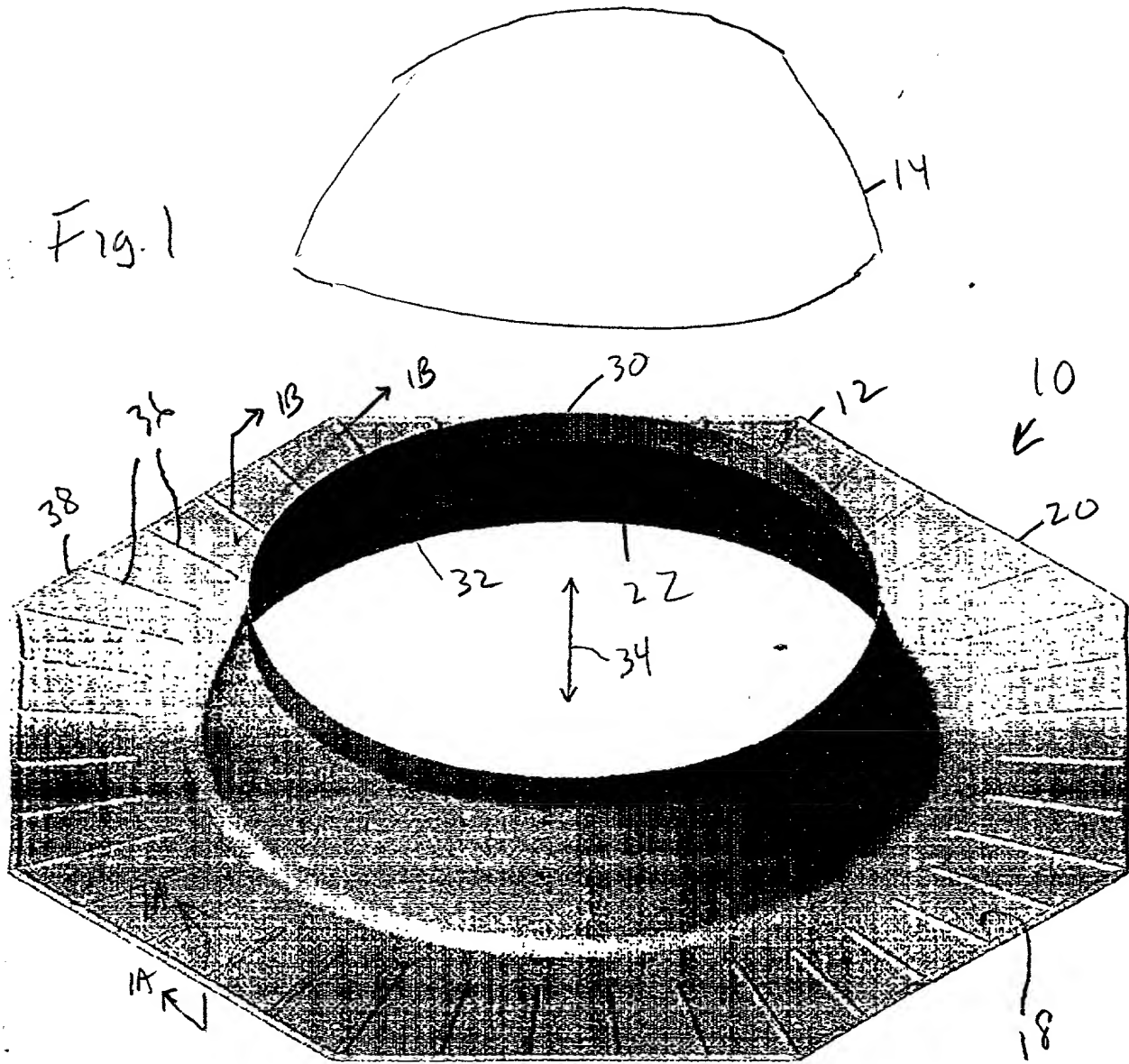


Fig. 1A

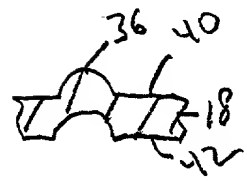
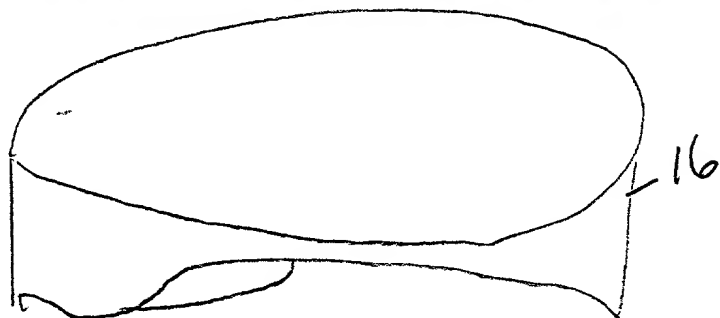


Fig. 1B





A black and white photograph of a large, dark, oval-shaped object, possibly a piece of equipment or a container, resting on a textured surface. The object has a white, curved, and reflective interior. Handwritten numbers '28' and '24' are visible on the object's surface.

26 ↗

Fig. 2

Fig. 3

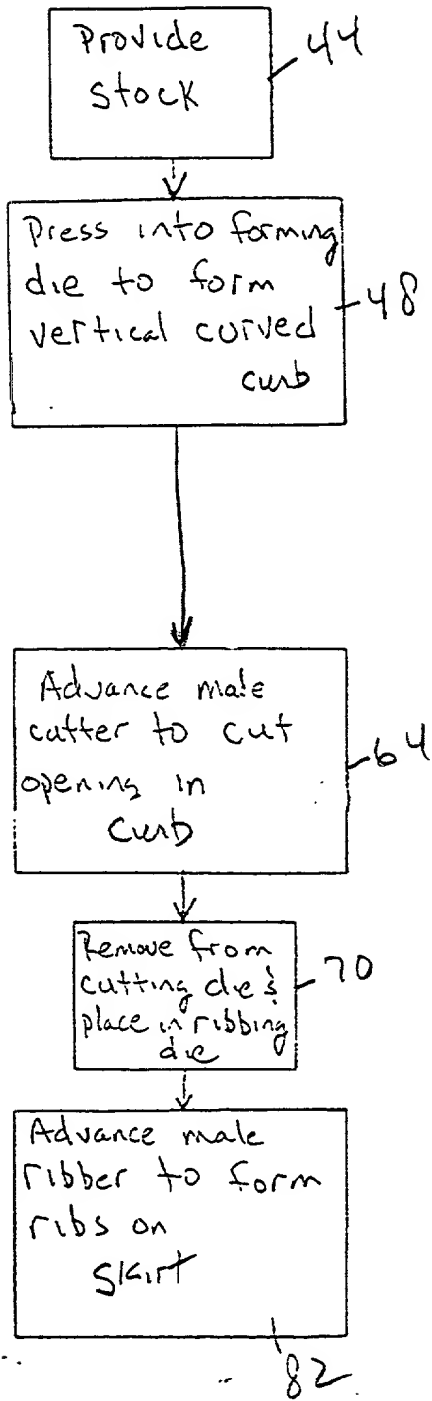


Fig. 7

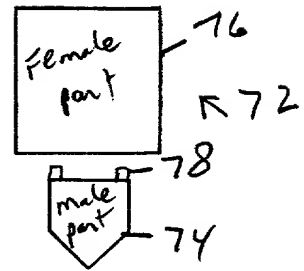
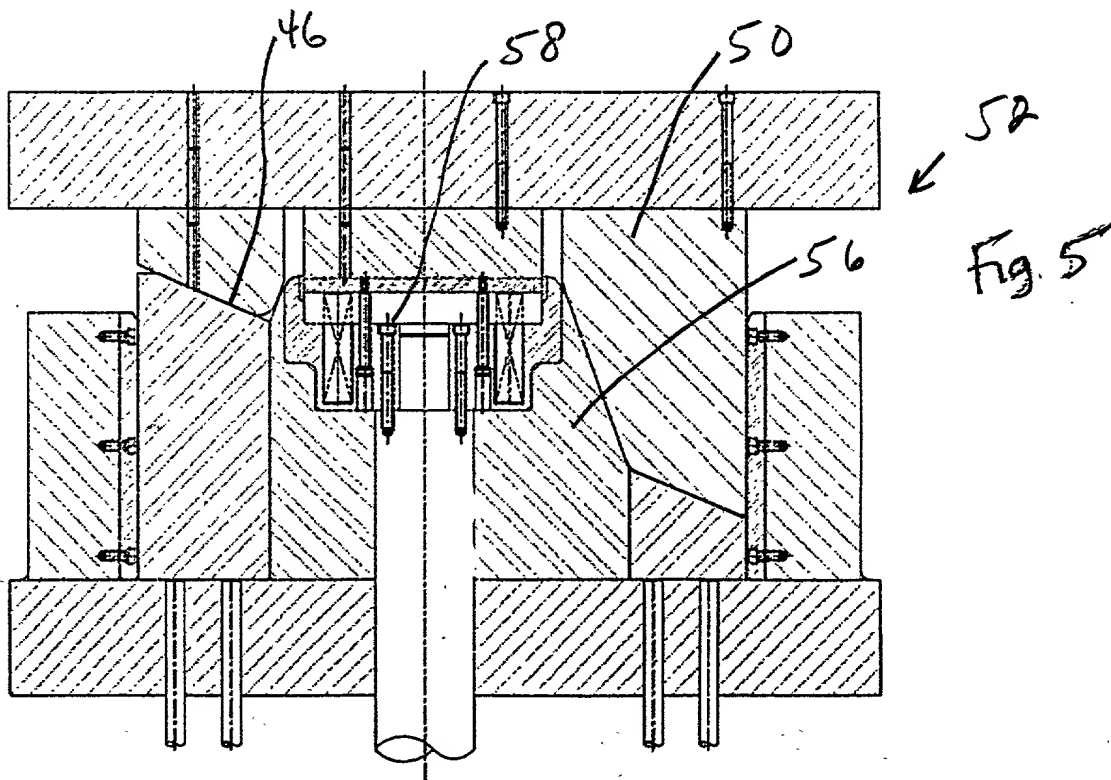
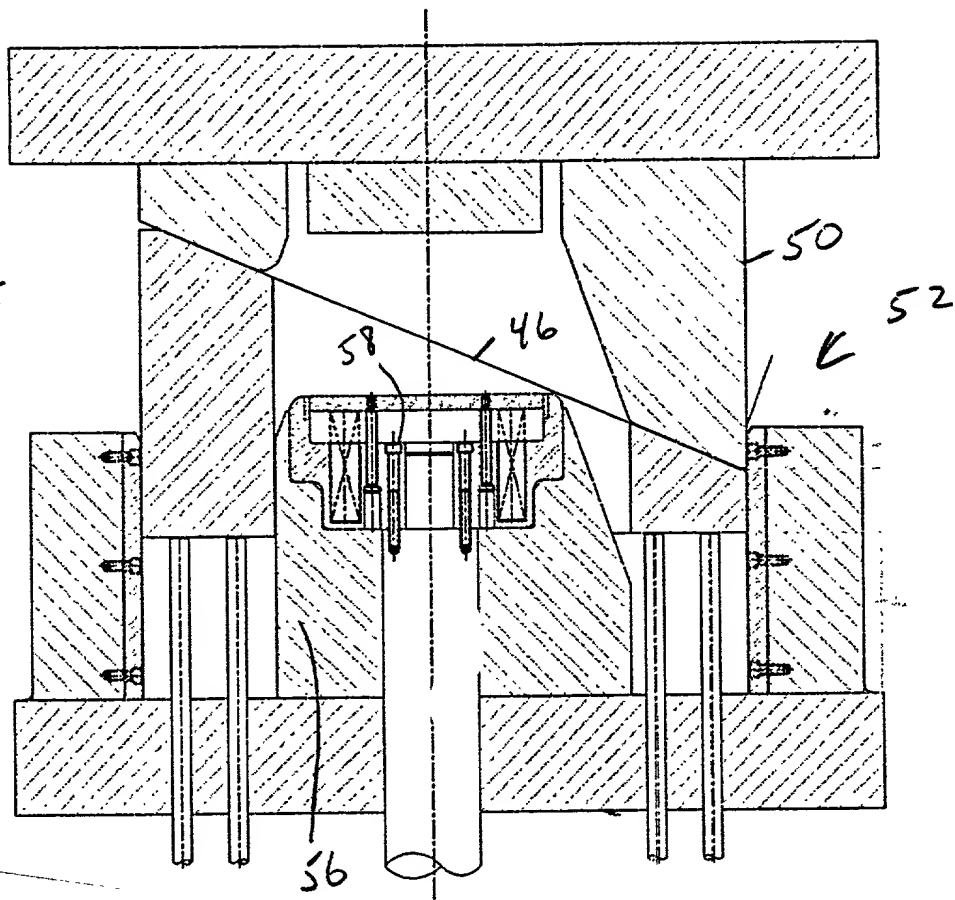


Fig. 4





## DECLARATION - USA PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "Skylight Flashing", specification of which is filed herewith.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above;

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a);

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**PRIOR FOREIGN APPLICATION(S)****Priority Claimed****App. No.:****Country:****Date Filed:**

NONE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below, and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

**PRIOR U.S.A. APPLICATION(S)****Serial No.:****Filing Date:****Status:**

NONE

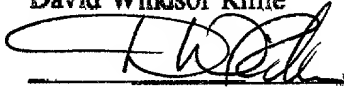
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

1128.006A

---

Full name of First or Sole

Inventor: David Windsor Rillie

Inventor's Signature: 

/dated: 8/17/99

Residence: 1883 Montgomery, Cardiff,, California 92007

Citizenship: Australia

Post Office Address: Same as above

---

Send Correspondence and Direct Telephone Calls to:

John L. Rogitz, Esq.  
ROGITZ & ASSOCIATES  
750 "B" Street, Suite 3120  
San Diego, CA 92101  
(619) 338-8075